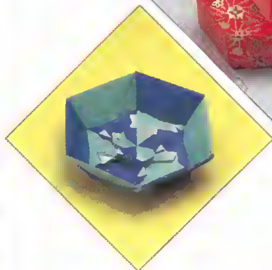


箱(はこ)をつくろう

ユニットおりがみ

布施知子



誠文堂新光社



つまみ(左)と 花かざり(右)のついた四角箱

四角箱のいろいろ

四角箱の重ね箱

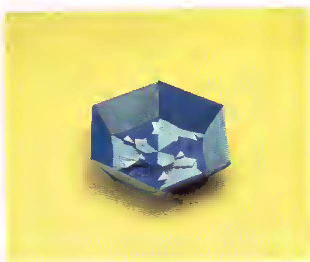


平たい四角箱

三角箱のいろいろ

六角箱2枚組み

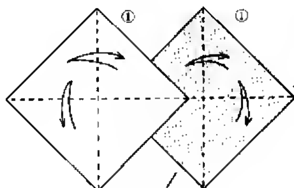
六角箱のいろいろ



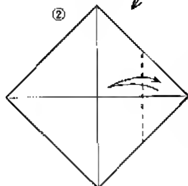
六角のお皿

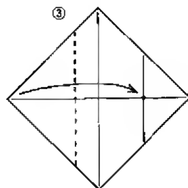
四角箱1・風車

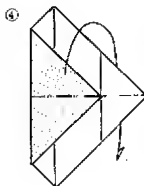
ひとつの折り方から２とおりの組み方がたのしめます．また，ちょっと折りかえると，右図Cのように「かこみ石」ができますが，これは右図Bの「水車」と，内側と外側のもようが反対の関係になります．

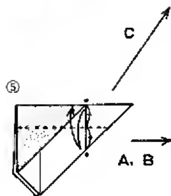


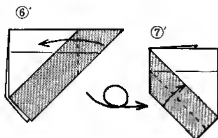
BとCは，はじめに色を内側にして折りましょう

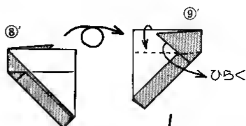






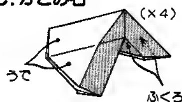




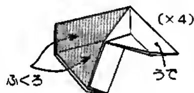


C

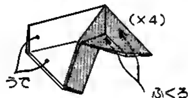
C.かこみ石



A.風車



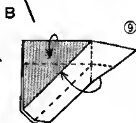
B.水車

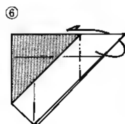


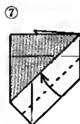


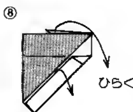
B

A

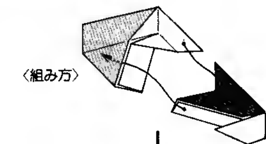


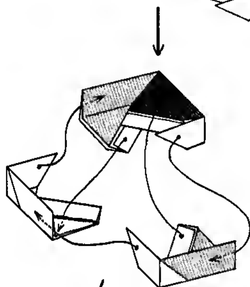


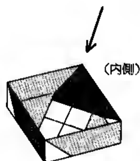


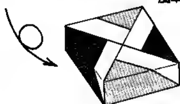


A. 風車

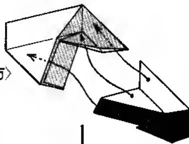


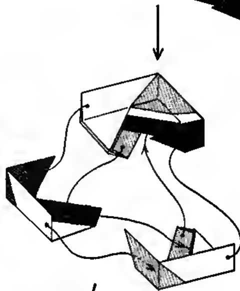


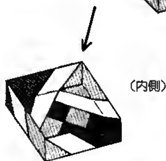


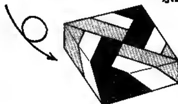


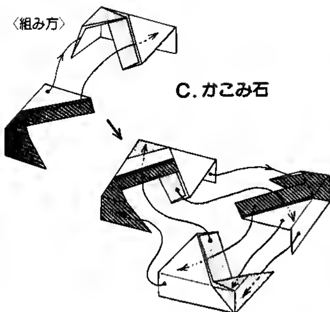
B. 水車



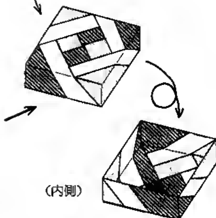






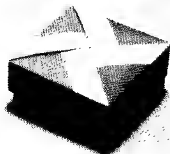


C.かこみ石





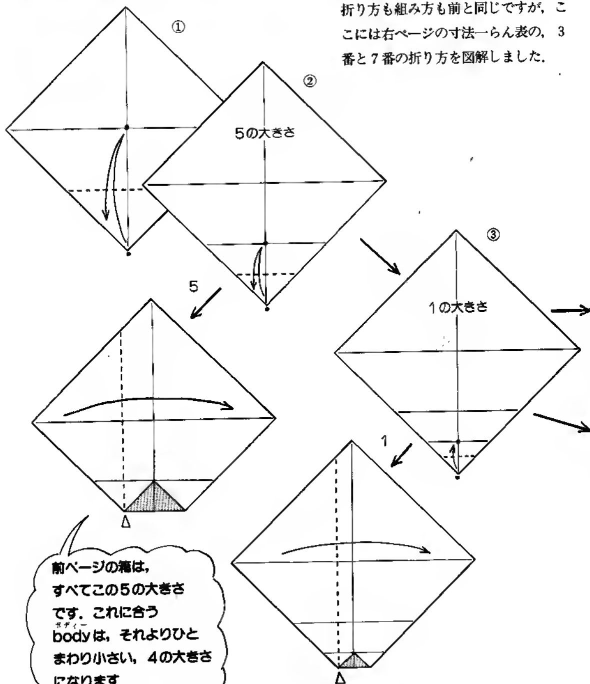
右：かこみ石
右下：水車
下：風車
(bodyの折り方は12ページ)





四角箱1の重ね箱

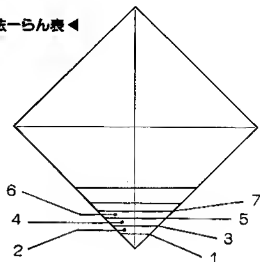
前ページの四角箱は，折る基準点をかえると重ね箱にすることができます．折り方も組み方も前と同じですが，ここには右ページの寸法一らん表の，3番と7番の折り方を図解しました．



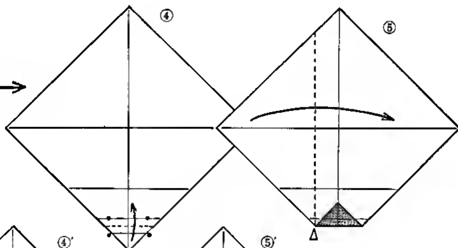
▶寸法一らん表◀

線だらけで，はじめはわけがわから
ないかも知れません．しかし，ともか
く手を動かして折ってみると，なーん
だというほどかんたんになるでしょう．

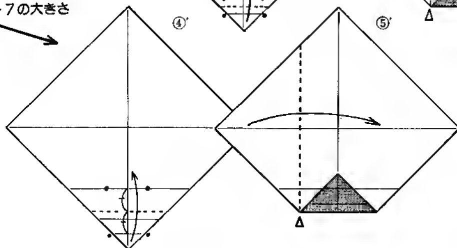
番号が大きくなるほど小さい箱にな
り，合計七つの重ね箱になります．



▶3の大きさ

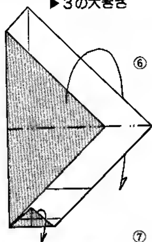


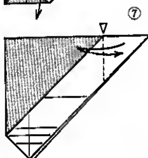
▶7の大きさ

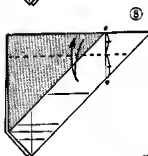


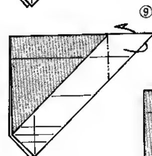
次のページへ ➡

▶3の大きさ

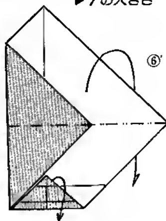


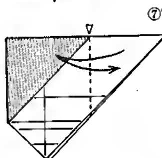


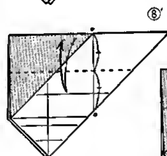


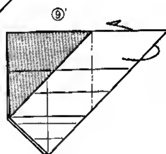


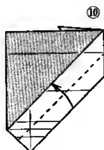
▶7の大きさ

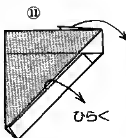


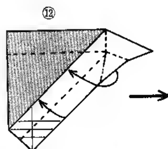


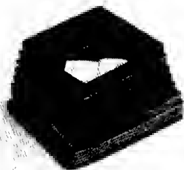




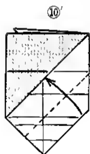


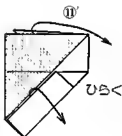


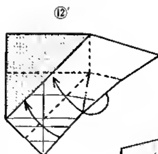


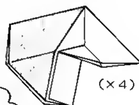


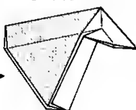








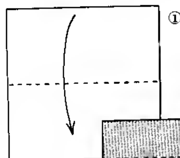


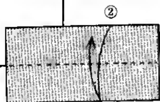


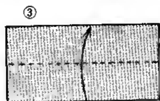
組み方は，6〜7ページと同じ．これも3種類の組み方ができますね

四角箱2・ちょうむすび

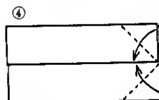
これは，四角箱1の，「風車」や「水車」のbodyにちょうどよい大きさです．折り方も組み方もかんたんなので，9ページの4の大きさと組み合わせるより，こちらの方がべんりでしょう．

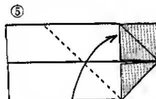


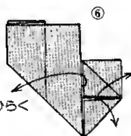


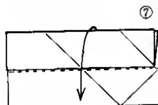


この箱は，四角箱1のbodyにちょうどよい大きさです

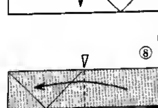




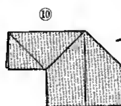


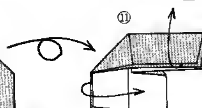


うらがえす

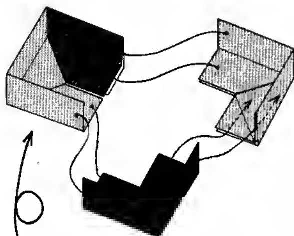


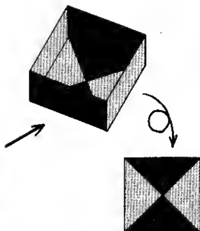






すべて同じように組む

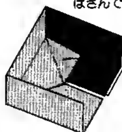




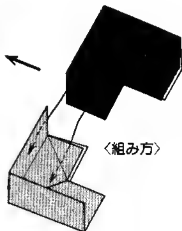


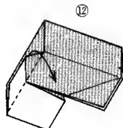
ちょうむすびの
もように，なり
ます

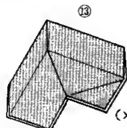
はさんでとめる



うらがえして
同じように
はさんでとめる



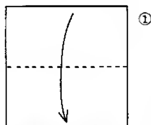


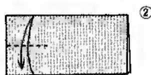


四角箱2の重ね箱

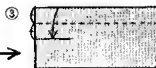
ところで，この「ちょうむすび」もまた，うれしいではありませんか，重ね箱にすることができます．

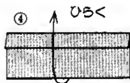
ここでは下の寸法一らん表の，１番と５番の折り方を図解しました．二つをくらべるとわかるように，折り手順は何番でも同じです，





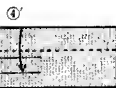
▶１の大きさ

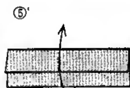




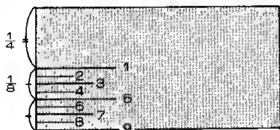
▶５の大きさ







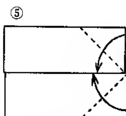
▶寸法一らん表◀

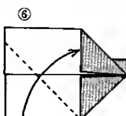


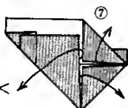
番号の大きいものほど小さい箱になり，合計七つの重ね箱ができます．

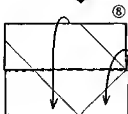
前ページで四角箱１のbody（ボディー）にするものは，この中の９番，つまり一番小さい箱になります．

次のページへ ➡



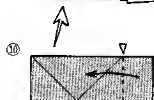


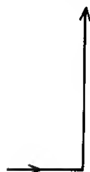


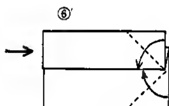


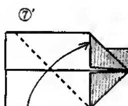


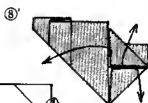


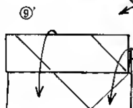








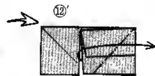


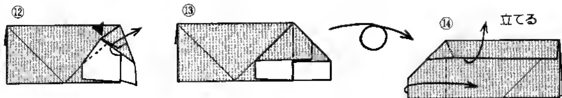


次のページへ ➡









外側も同じように
はさんでとめる

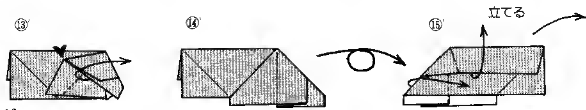
はさんでとめる

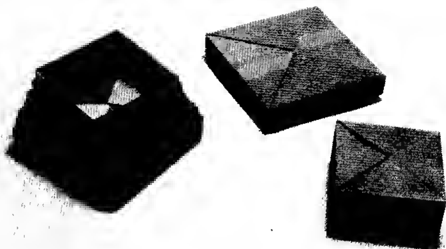
（×4）

すべて同じように組む

1の大きさ

（外側）





はさんでとめる

外側も同じように
はさんでとめる

すべて同じように組む

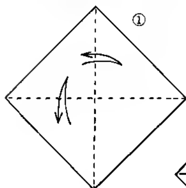
〈組み方〉

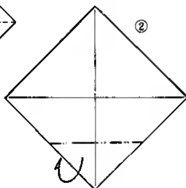
5の大きさ

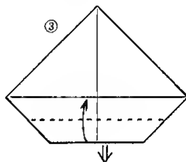
（×4）

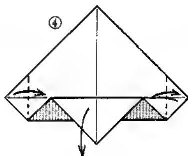
四角箱3・市松

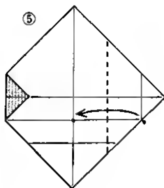
もうひとつ四角箱のシリーズを作りましょう．ちょっとした折り線のちがいで，花かざりがついたり，つまみがついたりします．

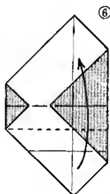


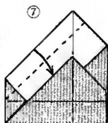


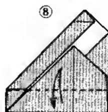


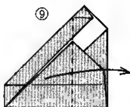




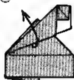




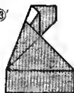


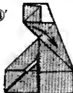


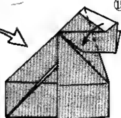
— 市松つまみつき —

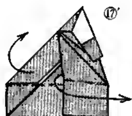


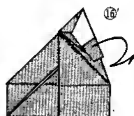
市松花かざり
の⑫から

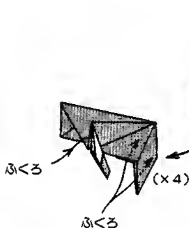




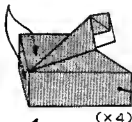






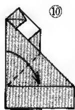


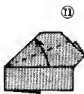
[redacted]

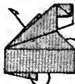


うで
(×4)

— 市松花かざり —







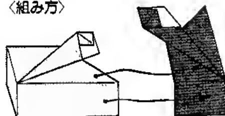
ひらく

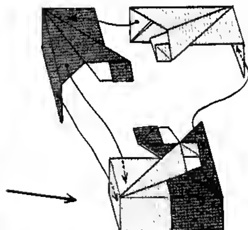


bodyの折り方は両方とも24ページ

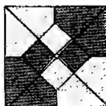
― 市松花かざり ―

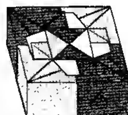
〈組み方〉

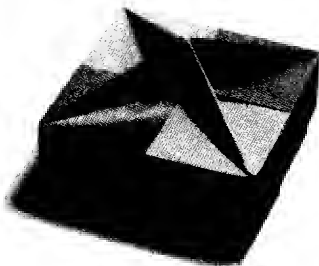


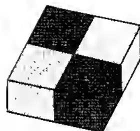


(内側)



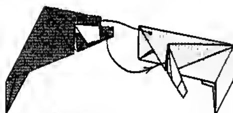




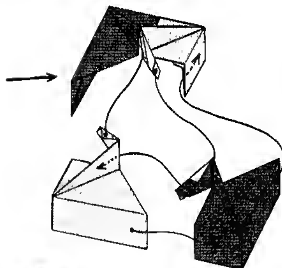


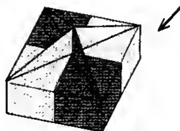
上に，何のかざりもない
市松もようの箱も，工夫(くふう)
してください

— 市松つまみつき —



〈組み方〉





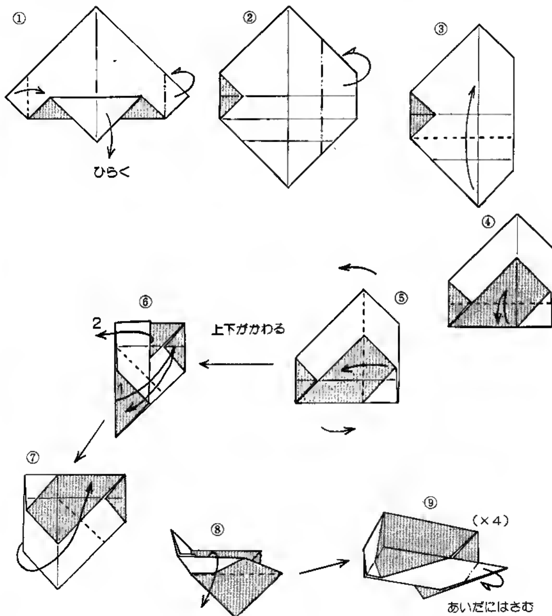
市松もよう

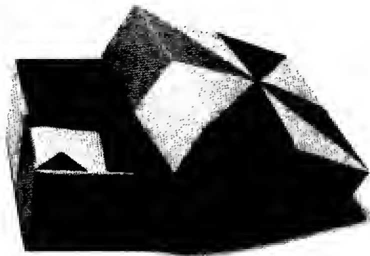


二つとも市松もようの上に，花かざりや，つまみがついています

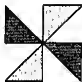
四角箱3・リボン

前ページの「市松（いちまつ）」の折り方にひと工夫（くふう）加えると，今度はリボンもようの箱になります．

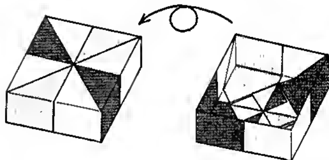


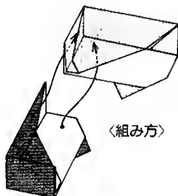


bodyの折り方は，25ページ

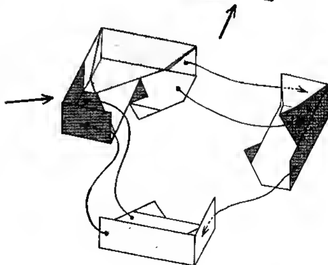


リボンのもよう
になります





〈組み方〉

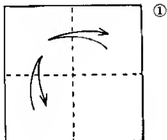


四角箱3のbody（ボディー）

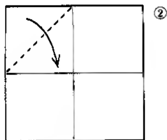
四角箱3のbodyは，12ページの「ちょうむすび」でもよいのですが，せっかくふたに市松（いちまつ）やリボンのもようが出るので，それと対（つい）になるものを作りましょう．

― 市松もようのbody ―

①

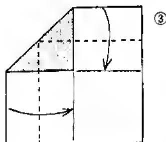


②

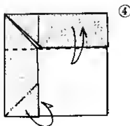




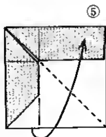
③



④



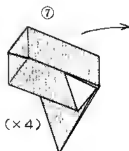
⑤



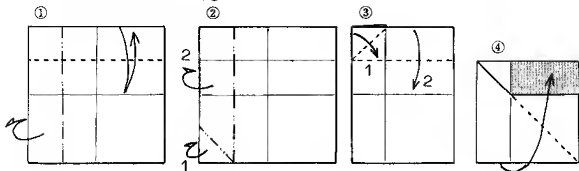
⑥

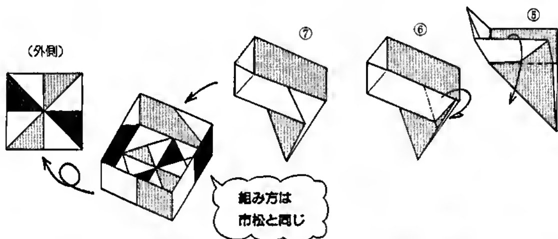


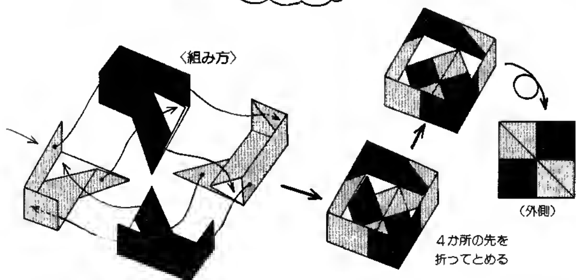
⑦



― リボンもようのbody ―



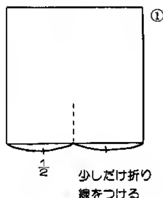


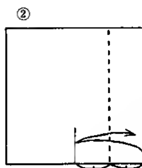


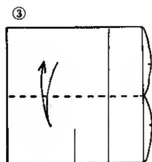
三角箱・大

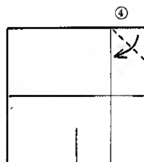
三角箱を作りましょう.折りがみならではの,かわいいたのしい形です.

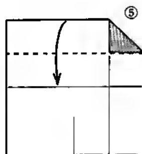
これも28ページのように重ね箱になり,これはその中で,もっとも大きい「大」です.

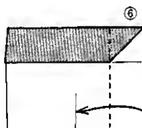


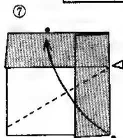


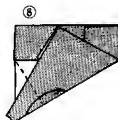


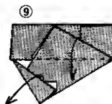


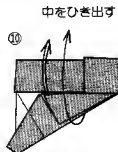












（外側）

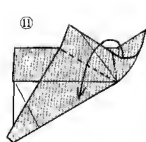
〈組み方〉

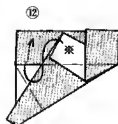
★印：下からさしこみ
フックのように
ひっかける

（×3）

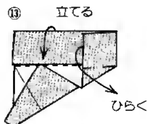
うで

ふくろ



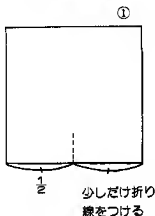


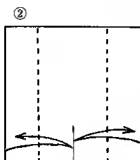
※印を中にしまう

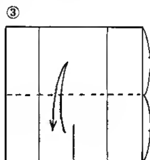


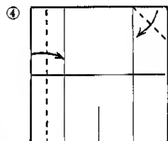
三角箱・中，小

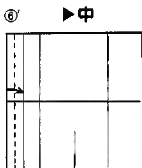
大・中・小と3組だけでなく，⑤を見るとまだいくつかできそうです．
挑戦(ちょうせん)してください．

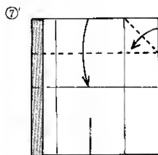




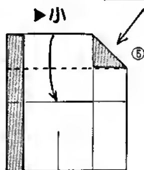


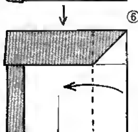


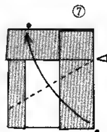




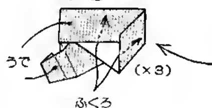
以下，折り方は
「小」の⑥からと同じ



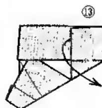




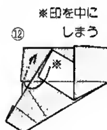




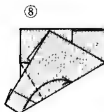
組み方は27ページ
「大」と同じ
うで
(×3)
ふくろ



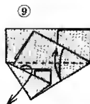
⑬



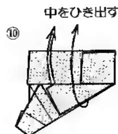
※印を中に
しまう
⑫
※



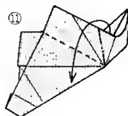
⑧



⑨



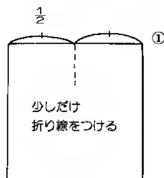
中をひき出す
⑩

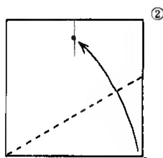


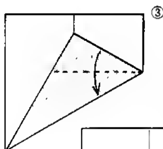
⑪

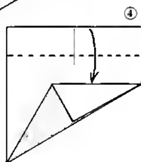
三角箱・花びら

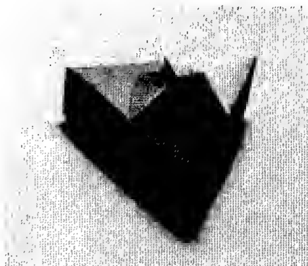
花びらの形のつまみがついた，三角箱のふたです．body（ボディー）は前の28ページの「小」を使うと，ちょうどよい組み合わせになります．



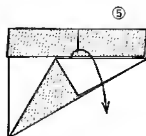


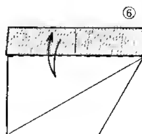




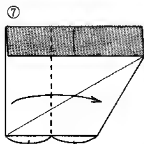


bodyは28ページの「小」

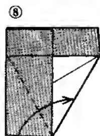




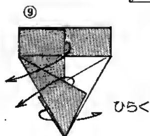
⑦



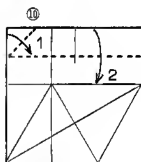
⑧



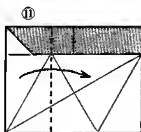
⑨



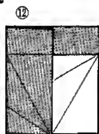
⑩



⑪

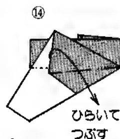


⑫

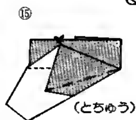


⑬

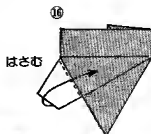
⑭



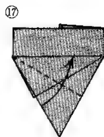
⑮



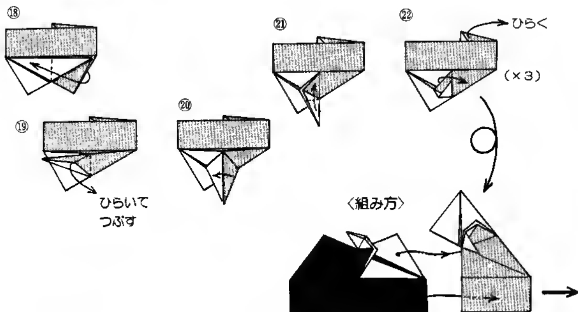
⑯



⑰

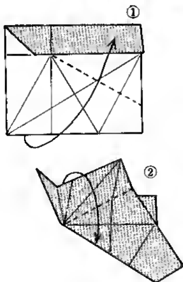


次のページへ ➡

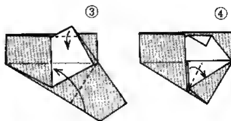


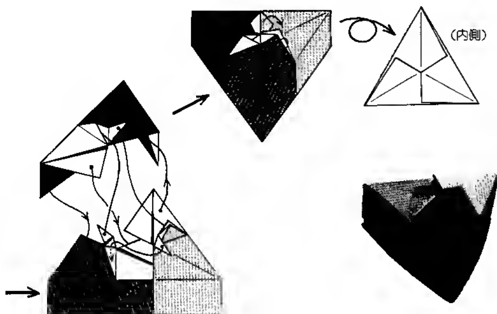
三角箱・三つばね水車

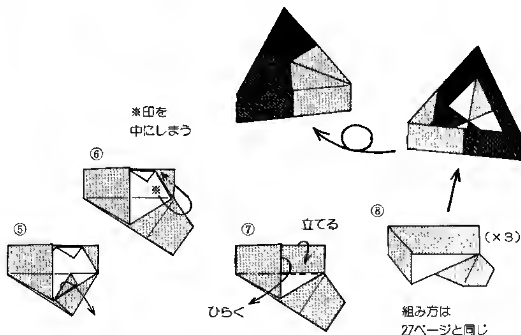
31ページの
⑪から



少し折りかえると，図のような「三つばね水車」になります，組み方は27ページを参考にしてください．

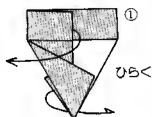



花びらをひらく
(内側)
bodyは28ページの「小」

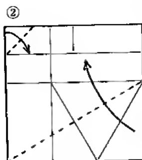

※印を
中にしまう
⑥
※
⑤
⑦
立てる
ひらく
⑧
(×3)
組み方は
27ページと同じ

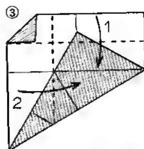
三角箱・つまみつき

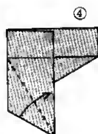
思わず手をかけて，ふたをあけてしまいたくなるような，シャープですてきなつまみがついた三角箱です．

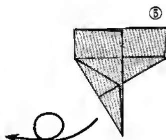


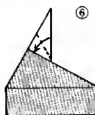
31ページの⑨から

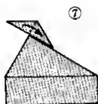


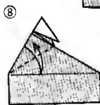


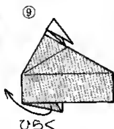


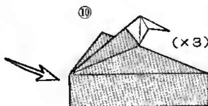


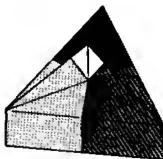


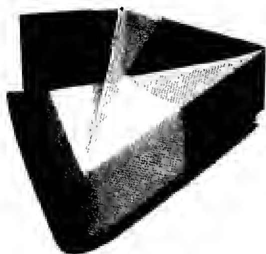




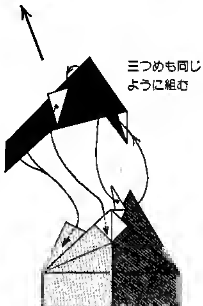


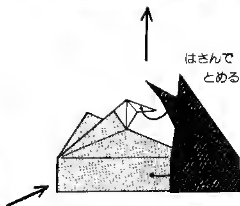




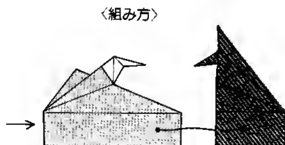


bodyは28ページの「小」





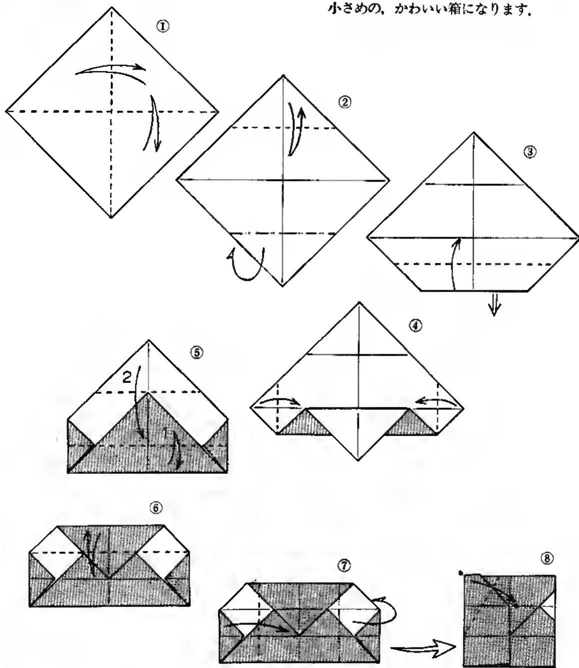
〈組み方〉

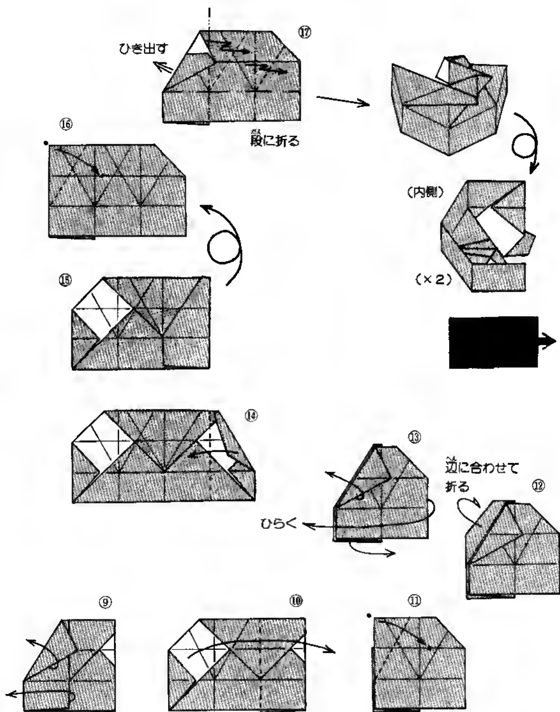


六角箱2枚組み

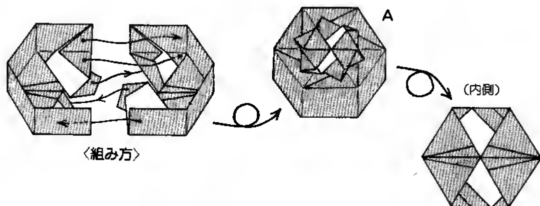
こんどは六角箱です。

2枚組みなので，15cm四方の紙では小さめの，かわいい箱になります。





⑰
ひき出す
段に折る
(内側)
(×2)
⑯
⑮
⑭
⑬
辺に合わせて
折る
⑫
ひらく
⑨
⑩
⑪



― もようがわり ―

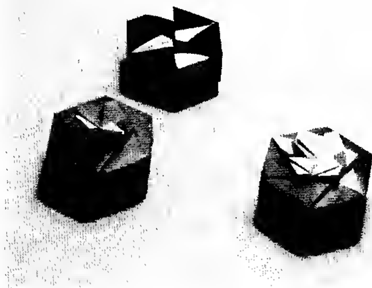
B

(×2)

C

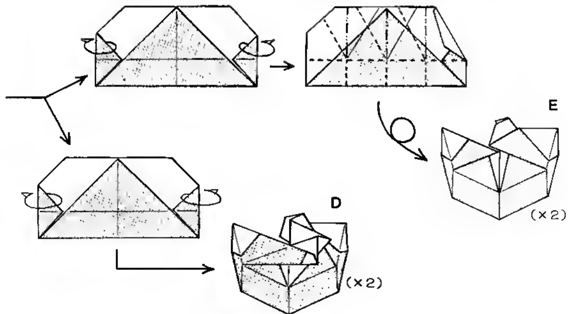
(×2)

B～Eのように，ちょっと折りかえるともようがかわり，ずい分ちがった感じになります．このほかにもためしてください．



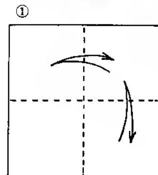
上：E
左：A
右：C

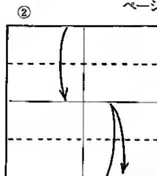
bodyの折り方は
40ページ

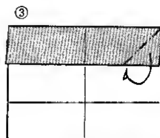


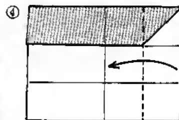
三角箱２枚組みのbody（ボディー）

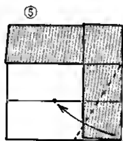
ふたと同じように規則的（きそくてき）な折り方をくり返し，２枚で組みます．組み方には三角箱（27ページ）と似たところがありますね．

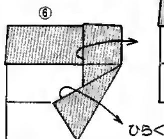
①


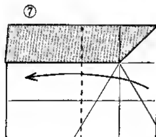
②


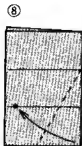
③


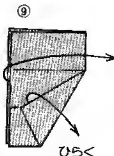
④


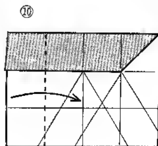
⑤


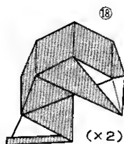
⑥


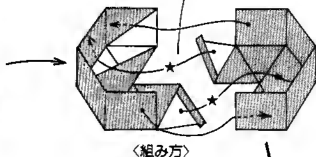
⑦


⑧


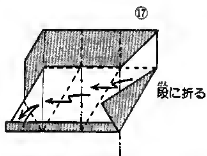
⑨


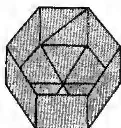
⑩


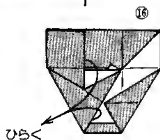


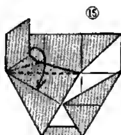


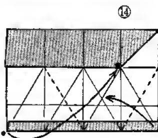
〈組み方〉

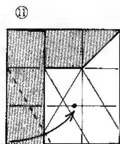


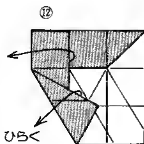


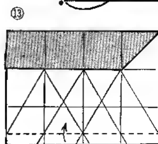










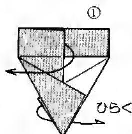


六角箱3枚組み1・三角どめ

こんどは3枚組みの六角箱です．

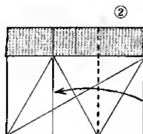
三角箱のとちゅう形から——つまり，三等分線を使って折ります．

①

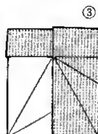


31ページの
⑨から

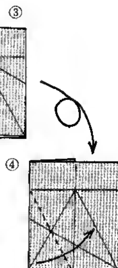
②



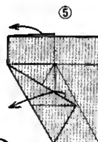
③



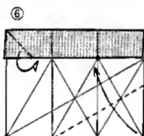
④



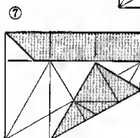
⑤



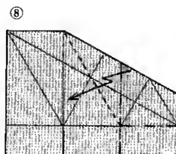
⑥



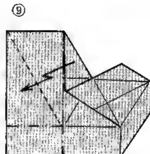
⑦



⑧

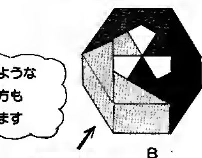


⑨



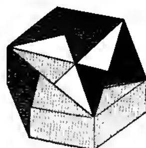
B. 六角どめ

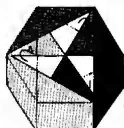
Bのような
とめ方も
あります



B

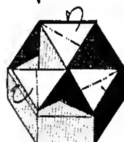
A. 三角どめ







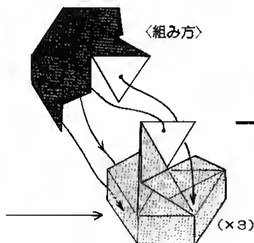
あいだに折って
とめる



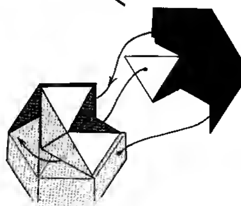
B

A

〈組み方〉

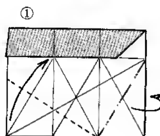


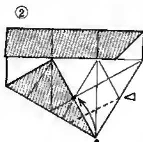
(×3)

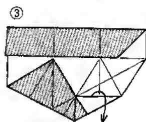


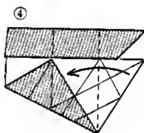
六角箱3枚組み1・つまみつき

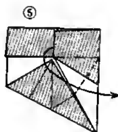
思ったよりしっかりした仕上がりになります．このほかに色がわりなども考えましょう．

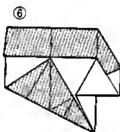


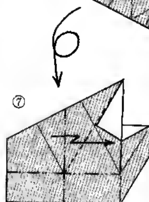


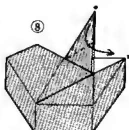


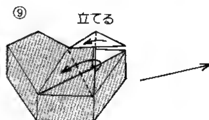


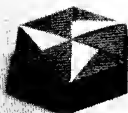










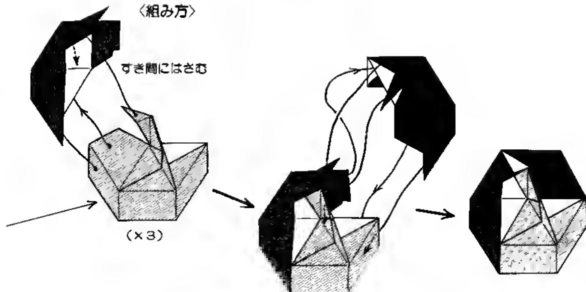






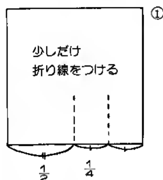
左上：三つばね水車
(58ページ参照)
右上：三角どめ
(42ページ参照)
下：つまみつき

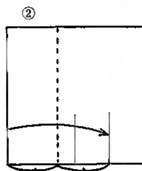
bodyの折り方は
46ページ

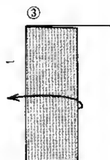


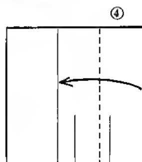
六角箱3枚組み1のbody（ボディー）

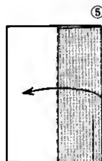
図の①～⑦までの作業（さぎょう）は，ふたと組み合わせてちょうどよい寸法にするためのものです．あとは2枚組みのbody（40ページ）と，折り方も組み方もほとんど同じです．





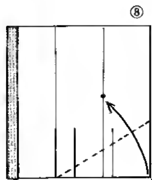


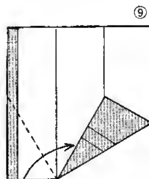


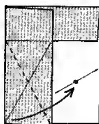


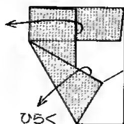


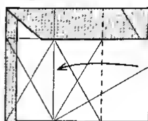




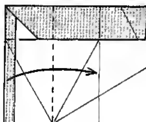


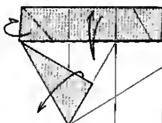


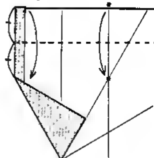


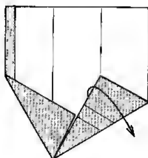


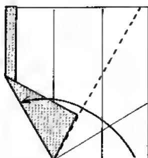
次のページへ ➡

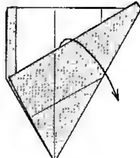


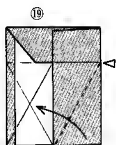


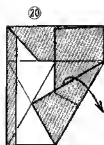


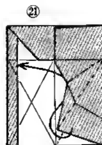


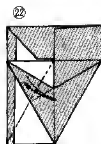


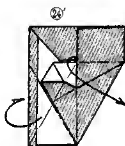


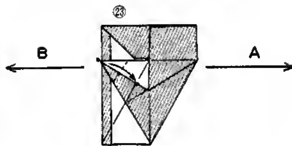

⑲

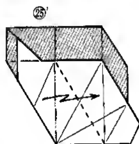

⑳

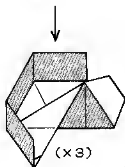

㉑

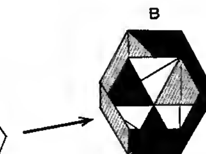

㉒

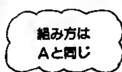

㉔′

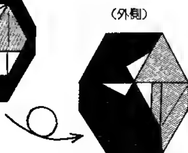

㉓
B
A

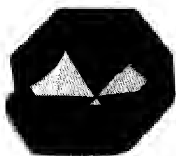

㉕′


(×3)

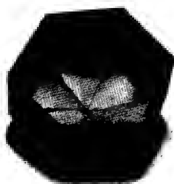

B


組み方は
Aと同じ


(外側)

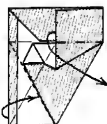


B

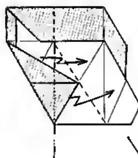


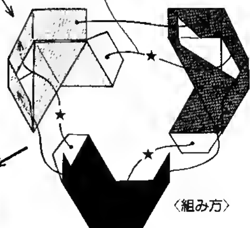
A

㉔

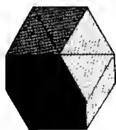


㉕

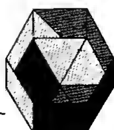




(外側)



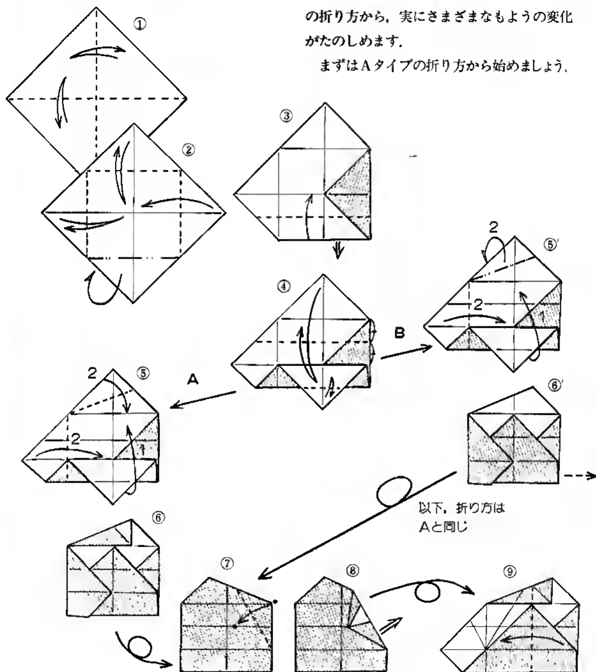
A

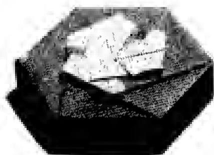


六角箱3枚組み2・Aタイプ

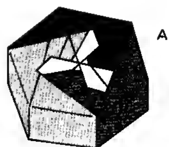
この3枚組みの六角箱は，A・B・C三つの折り方から，実にさまざまなもようの変化がたのしめます．

まずはAタイプの折り方から始めましょう．

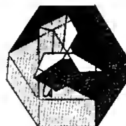


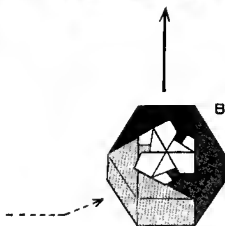


bodyの折り方は
58ページ

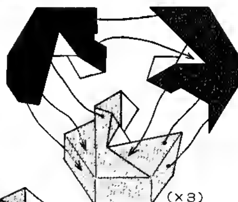


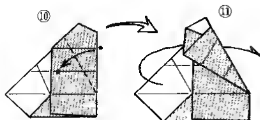
折ってとめる

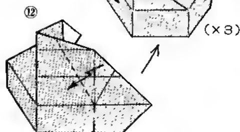




〈組み方〉

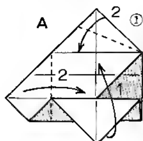




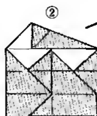


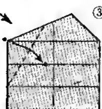
六角箱3枚組み2・Bタイプ

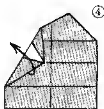
次はBタイプの折り方です．基本的な折り方をおぼえたら，次に山線・谷線をいろいろかえて，新しいもようを見つけてください．

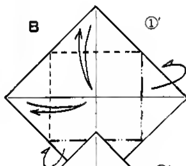


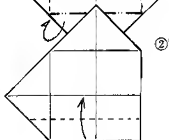
50ページの
④から

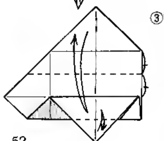


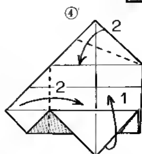


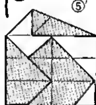






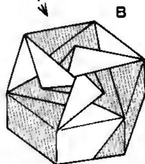








以下，折り方は
Aと同じ



⑥ ⑦ ⑧ ⑨

ひらく

ひらく

⑤

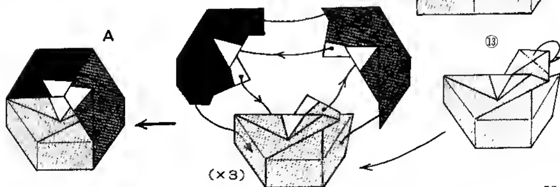
⑩

⑪

⑫

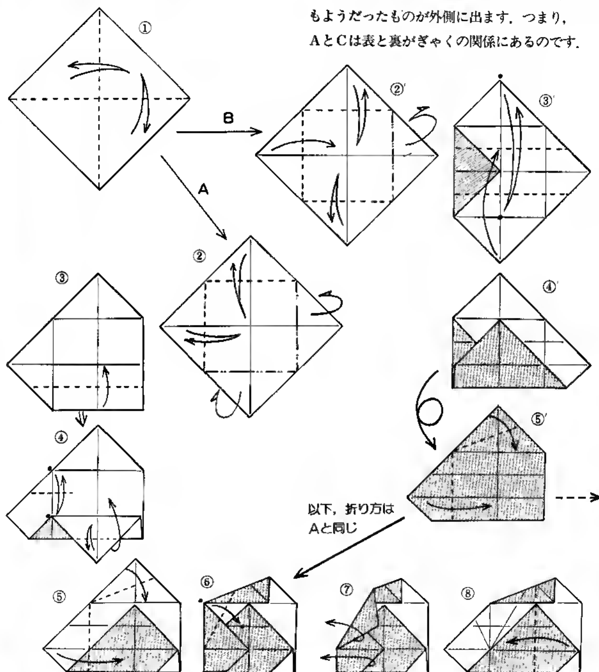
bodyの折り方は58ページ

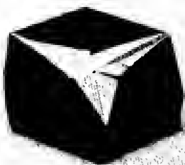
⑬



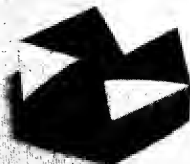
六角箱3枚組み2・Cタイプ

このCタイプで折ると，Aタイプの内側のもようだったものが外側に出ます．つまり，AとCは表と裏がぎゃくの関係にあるのです．





B



A

bodyの折り方は58ページ

B

A

〈組み方〉

(×3)

⑨

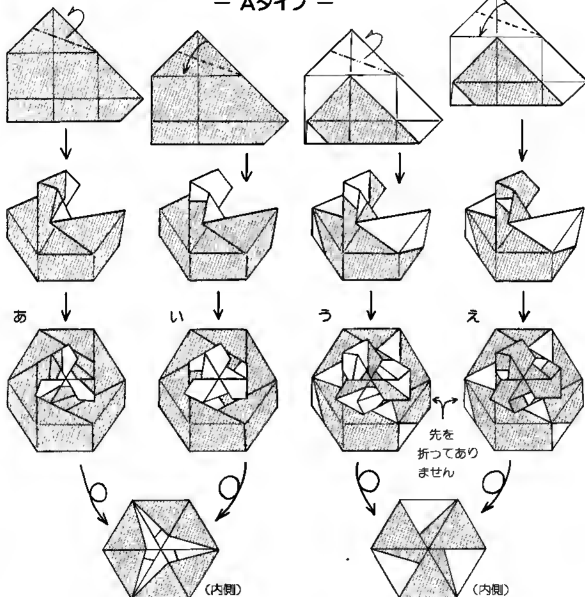
⑩

⑪

⑫

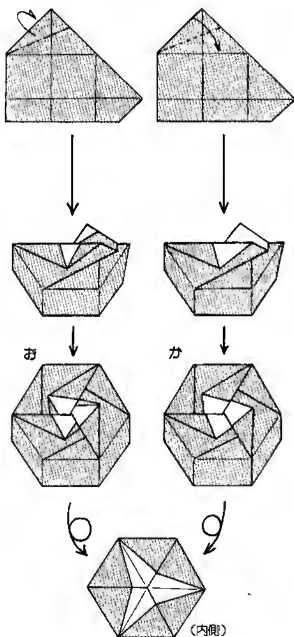
3枚組み2のまとめ

ここにA・B・C，3タイプのもようの変化をまとめてみました．本文で図解していないものもまざっています．それぞれの関係をじっくり見くらべてください．

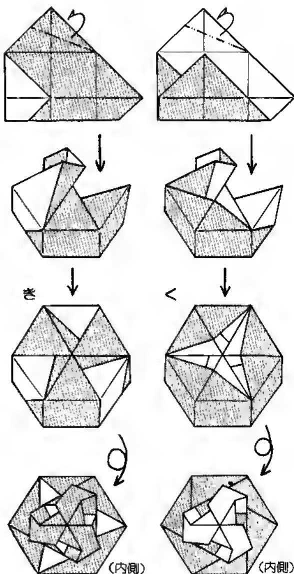


折り方はこの3タイプだけでなく，まだほかにも考えられるし，いろいろ組み合わせを工夫して，すてきな箱をたくさん作りましょう．

— Bタイプ —

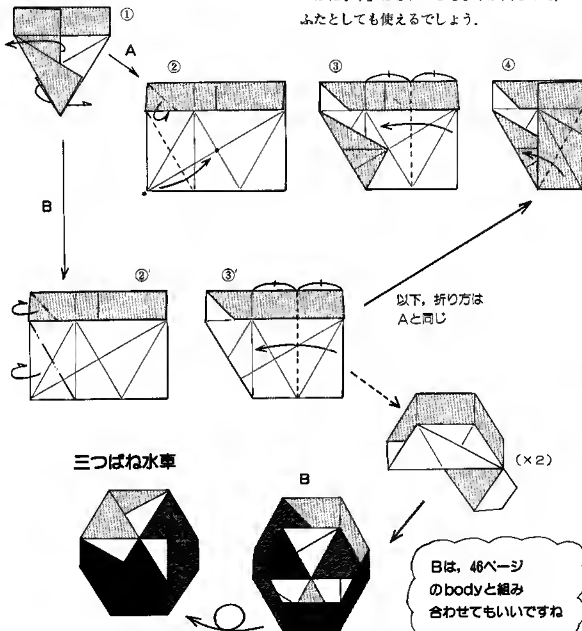


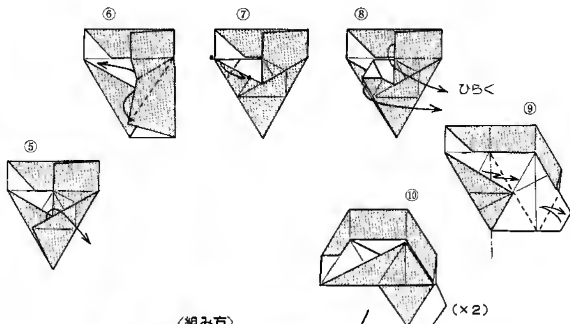
— Cタイプ —



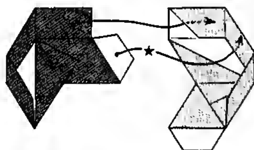
六角箱3枚組み2のbody（ボディー）

このbodyは，３枚組み１（42ページ）と同じサイズで，三等分線を使って折ります.「三つばね水車」はきれいなもようが出るので，ふたとしても使えるでしょう.

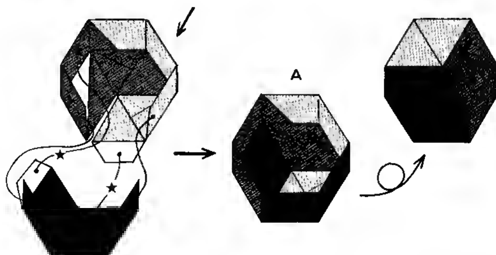




〈組み方〉

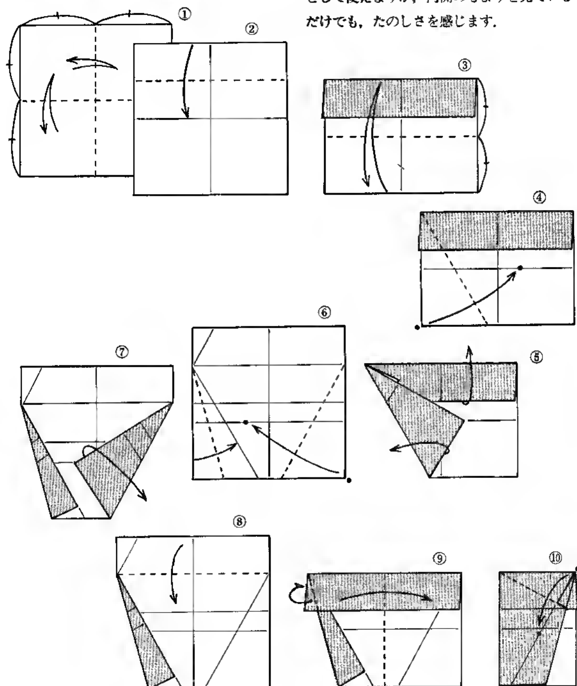


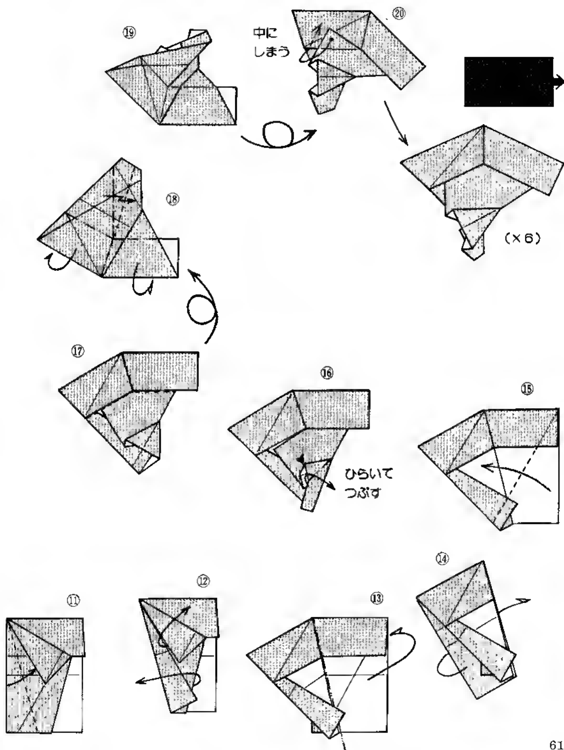
★印：下からさしこみ
フックのようにひっかける

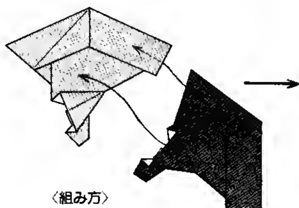


六角のお皿

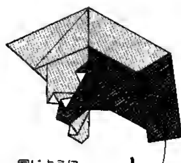
最後は六角形のお皿です．もちろん入れ物として使えますが，内側のもようを見ているだけでも，たのしさを感じます．



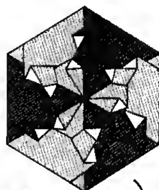

⑲
⑳
中に
しまう
⑱
(×6)
⑰
⑯
ひらいて
つぶす
⑮
⑭
⑪
⑫
⑬



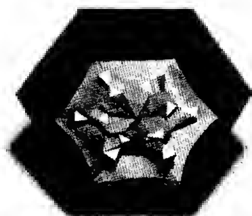
〈組み方〉

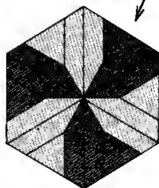


同じように
6枚を組む



(底の内側)





(底の外側)